



Memphis Depot

FOCUS ON THE FUTURE

Environmental Restoration Program Milestones and Update

Presented by

John De Back
DoD Base Transition Coordinator

Memphis Depot Restoration Advisory Board Meeting
March 18, 2004



Presentation Overview

Progress Report

- Main Installation
 - Enhanced Bioremediation Study, Remedial Design, FOST #3
- Dunn Field
 - Record of Decision (ROD), Groundwater Treatability Study, Pre-Design Investigation

Focus on the Future

- Evolution of Depot Cleanup Team
 - MACTEC/AFCEE, Program Oversight
- Next Steps
 - 2004 and beyond

Main Installation Update



Enhanced Bioremediation Pilot Study

- **Enhanced Bioremediation Treatment (EBT) is the preferred cleanup remedy for groundwater at the MI**
 - **Naturally occurring organisms help to break down, or degrade, chemicals**
 - **Providing additional sources of nutrients speeds up or enhances this process**
- **Pilot Study completed at two MI sites**
 - **Natural compounds injected into groundwater (vegetable oil, sodium lactate)**
 - **Results show enhanced bioremediation with sodium lactate is an effective remedy for groundwater at MI**

Main Installation Update



Remedial Design Report, MI

- Part of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
 - Remedial Design (RD) is the fifth of six stages
- Provides a detailed plan for the design and implementation of cleanup remedies
 - Results of EBT pilot study will be used to design full-scale program for groundwater at the MI
- Selected remedy for soil has been completed
 - Excavation, transport and off-site disposal of an estimated 7,200 square-foot area of soil
- Anticipated completion date: Spring 2004

Main Installation Update



Finding of Suitability to Transfer (FOST) #3

- Requirement of the Base Realignment and Closure Act (BRAC)
- Details historic uses of the property and buildings proposed for transfer
 - Highlights any environmental issues and completed cleanup remedies used to address them
- FOST #3 recommends transfer
 - 65 buildings, 249.21 acres of open land (Memphis Depot Business Park)
 - 37.45 acres of recreational property on the former Main Installation (former Depot golf course)
- Public Comment Period: Spring 2004

Dunn Field Update



Record of Decision (ROD)

- Part of the CERCLA process
 - Ensures site is safe for current and future use
- Documents the cleanup alternatives selected for soil and groundwater at Dunn Field
 - Excavation and offsite disposal of affected soil and debris from disposal sites
 - Soil Vapor Extraction (SVE) of soil containing solvents
 - Zero-Valent Iron (ZVI) injection, Permeable Reactive Barrier (PRB), and Monitored Natural Attenuation with Institutional Controls for groundwater
 - Institutional Controls for surface soil on west side of Dunn Field
- Includes responses to public comments on the Dunn Field Proposed Plan

Dunn Field Update



- **ROD for Dunn Field now under review by:**
 - U.S. Department of the Army
 - U.S. Environmental Protection Agency (EPA)
 - Tennessee Department of Environment and Conservation (TDEC)
- **Copies of final document will be placed in Information Repositories for public reference**
- **Scheduled for completion: Spring 2004**

Dunn Field Update



Groundwater Treatability Study

Tests conducted to determine effectiveness of preferred cleanup remedies for groundwater:

Zero Valent Iron (ZVI) Injection:

Iron particles used to reduce levels of Volatile Organic Compounds (VOCs) in shallow aquifer

Permeable Reactive Barrier (PRB):

Underground wall or barrier with iron as a catalyst used to break VOCs in the groundwater into safe, natural compounds

Results will be used in the Remedial Design

Dunn Field Update



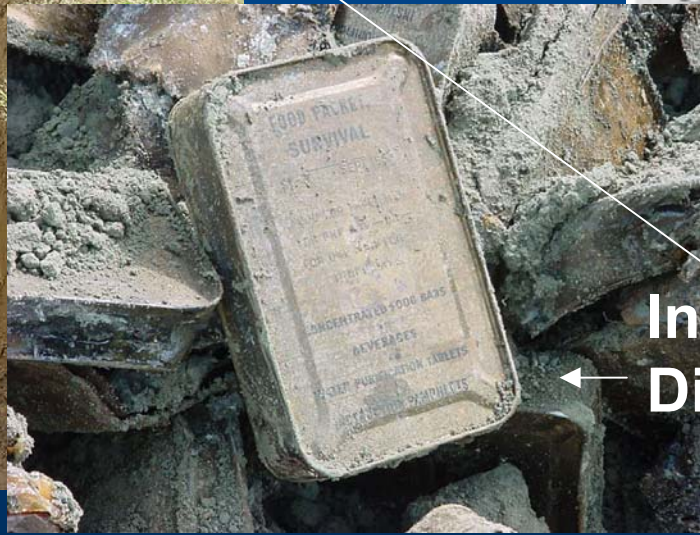
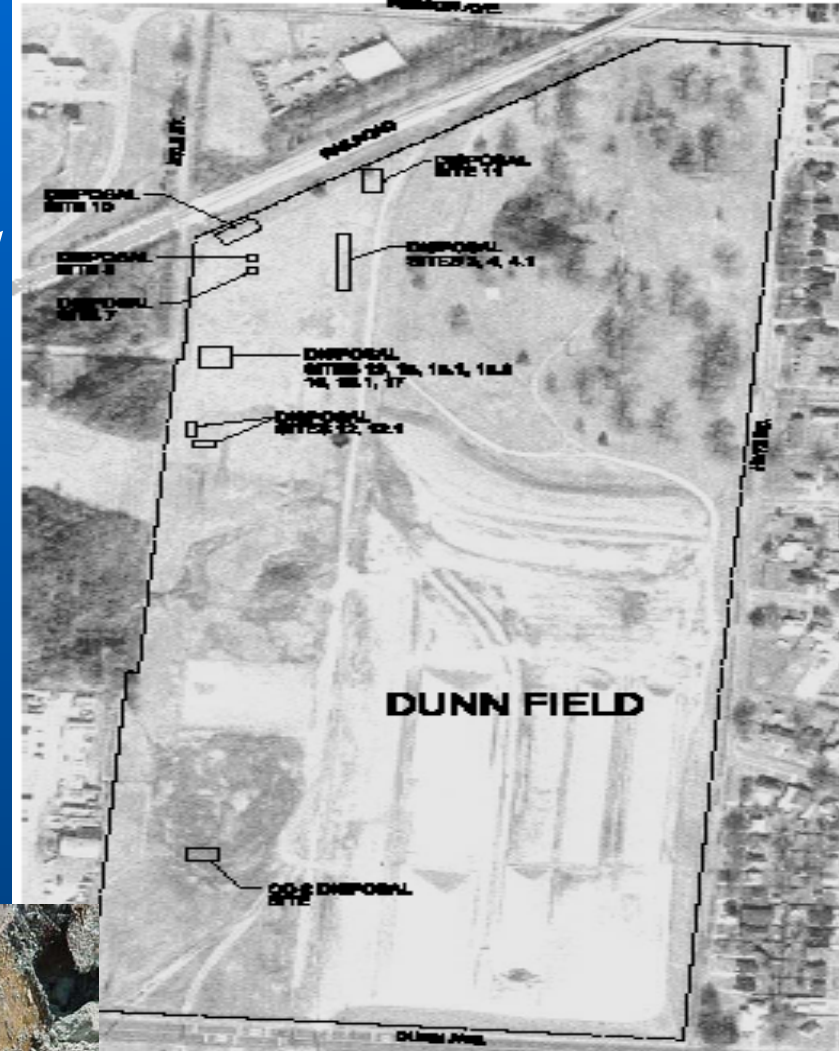
Pre-Design Investigation of Disposal Sites

Completed Fall/Winter 2003-04:

- Confirmed locations, contents and condition of buried waste at 17 suspected disposal sites
- Results will be used in the Remedial Design

Dunn Field Update

Locations of Disposal Sites on Dunn Field



Investigation of Disposal Sites

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- *Our Goal: Restore the Depot property and ensure it is safe for community reuse*
- **Nearing completion of key decision-making stages of CERCLA process**

Main Installation

- **ROD completed**
- **Soil remedy completed**
- **Pilot study for groundwater remedy completed**

Dunn Field

- **ROD – Spring 2004**
- **Soil investigation completed**
- **Pilot studies for groundwater remedies – Summer 2004**

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Evolution of the Depot Cleanup Team

- **Air Force Center for Environmental Excellence (AFCEE)**
 - New service agent for cleanup program, manages the construction and operation of selected cleanup remedies for the Defense Logistics Agency (DLA)
- **MACTEC Engineering and Consulting**
 - Remedial Action contractor
 - Will maintain groundwater pump and treat system, prepare Remedial Action work plans, implement cleanup remedies and long-term monitoring at MI and Dunn Field

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Base Transition Coordinator

- After more than 10 years with the program, John De Back is leaving Memphis to join the Pentagon

Mike Dobbs – Environmental Manager, Defense Distribution Center (DDC)

- Will serve as BRAC Environmental Coordinator and Facility Co-Chair of RAB
- Committed to maintaining an ongoing dialogue with the community throughout the cleanup process

MACTEC

- Will provide program management assistance throughout Remedial Design/Remedial Action phases

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Community Contacts

Please contact us if you have any questions or comments about the environmental cleanup program or the former Memphis Depot:

- **COMMUNITY INFORMATION LINE**
 - **(901) 544-0613**
- **ENVIRONMENTAL PROGRAM OVERSIGHT/TECHNICAL SUPPORT**
 - **Mike Dobbs, DDC**
 - **PHONE: (717) 770-6950**
 - **EMAIL: michael.dobbs@dla.mil**
- **MEDIA INQUIRIES/PUBLIC AFFAIRS**
 - **Jackie Noble, Command Affairs Officer, DDC**
 - **PHONE: (717) 770-6223**
 - **EMAIL: jackie.noble@dla.mil**

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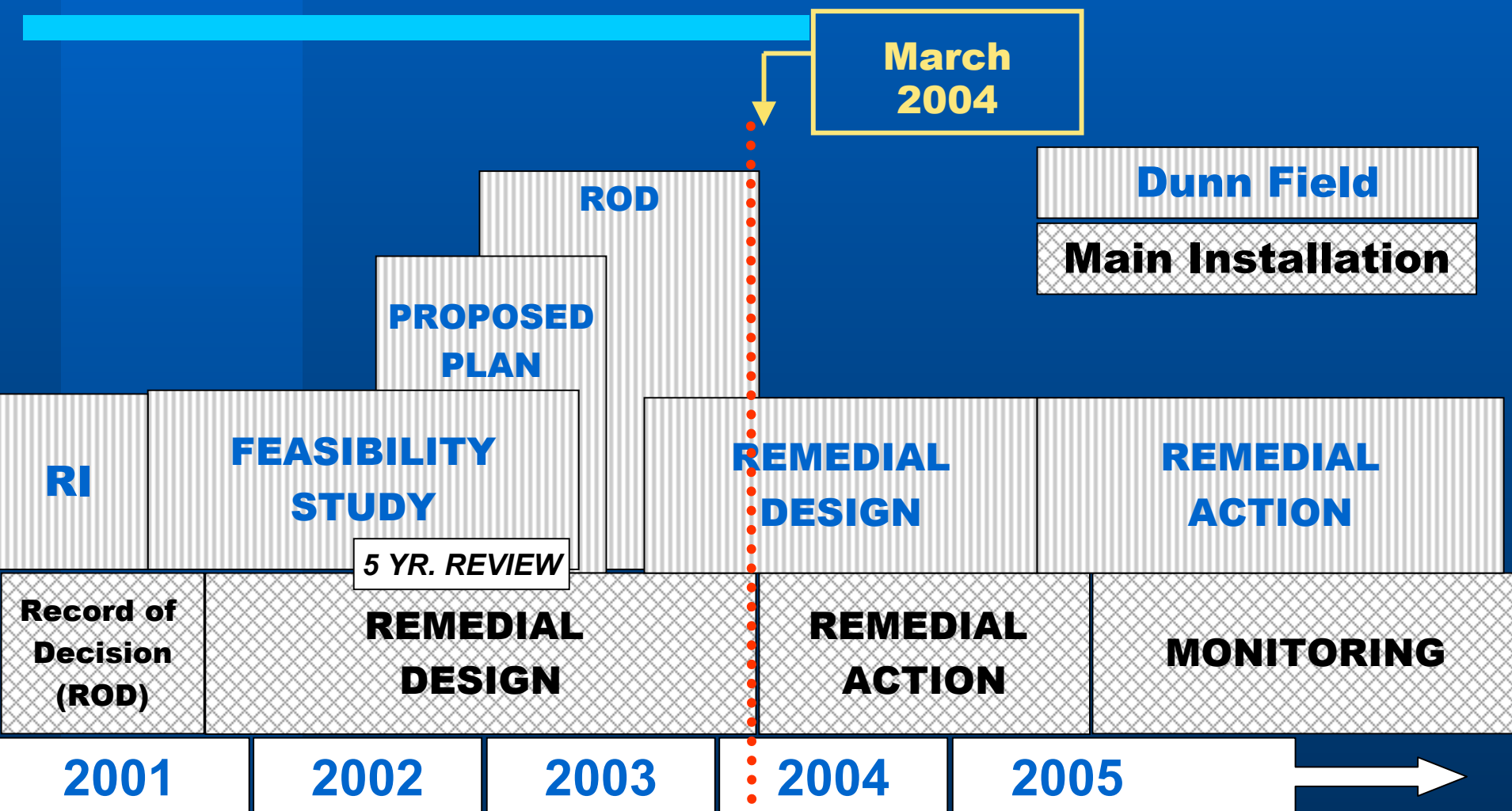


Community Contacts

- **BRAC CLEANUP TEAM (BCT)**
 - Includes representatives from EPA and TDEC
 - Oversees the cleanup program to ensure it meets appropriate legislative requirements and is protective of human health and the environment
- **Turpin Ballard (EPA)**
 - (404) 562-8553
 - ballard.turpin@epa.gov
- **Jim Morrison (TDEC)**
 - (901) 368-7958
 - jmorrison2@state.tn.us

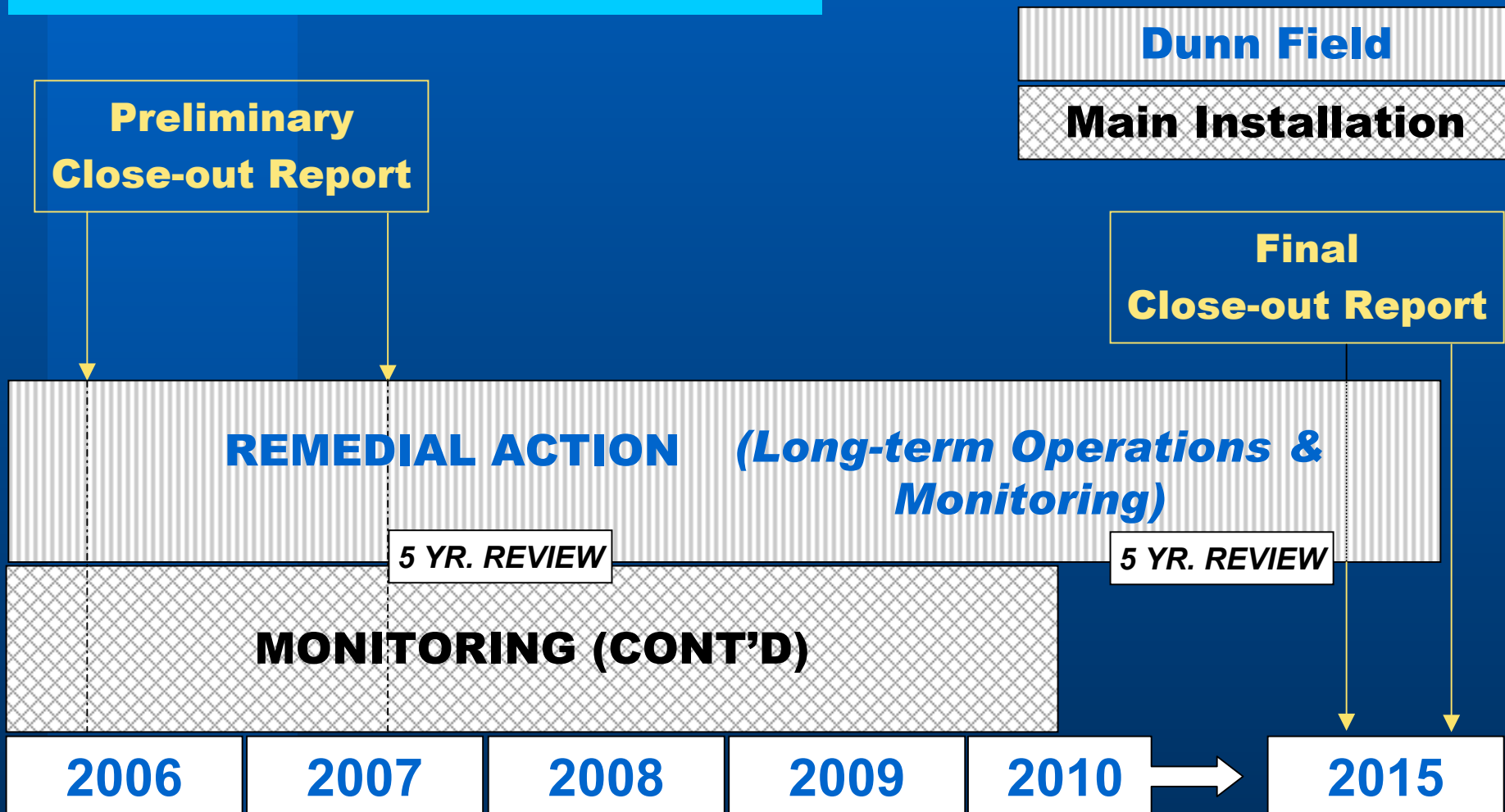


CERCLA Update: Where are we now?



Projected dates are based on current information and may be subject to change

CERCLA Update: Where are we going?



Projected dates are based on current information and may be subject to change

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Next Steps

Main Installation

Fall 2004

Complete Remedial Action Work Plan

Begin Remedial Action

2005 and Beyond

**Remedial Action implementation (2 years) and
Long-term Monitoring**



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Next Steps

Dunn Field

Winter 2004-05

Complete Remedial Design

Spring 2005

FOST #4 – Public Comment Period

Summer 2005

Complete Remedial Action Work Plan

Begin Remedial Action

Projected dates are based on current information and may be subject to change



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